

ABSTRACT OF THE DISCLOSURE

A plasma display panel. A pair of substrates has a transparent front surface and is disposed to leave a discharge space therebetween. A plurality of barrier ribs is disposed on one substrate to partition the discharge space into a plurality of respective green discharge spaces, blue discharge spaces and red discharge spaces. A group of electrodes is disposed on the substrates to discharge in the discharge spaces partitioned by the barrier ribs. A phosphor layer is formed in the discharge spaces, the phosphor layer being a green phosphor layer for the green discharge spaces, a blue phosphor layer for the blue phosphor discharge spaces, and a red phosphor layer for the red discharge spaces. A discharge gas is filled in the discharge spaces, wherein the green phosphor layer comprises from 10 to 70% by weight of a first green phosphor selected from the group consisting of $\text{Zn}_2\text{SiO}_4\text{:Mn}$, $(\text{Zn}, \text{A})_2\text{SiO}_4\text{:Mn}$ (where A is an alkali metal), and mixtures thereof; from 0 to 30% by weight of a second green phosphor selected from the group consisting of $(\text{Ba}, \text{Sr}, \text{Mg})\text{O}\cdot a\text{Al}_2\text{O}_3\text{:Mn}$ (where a is from 1 to 23), $\text{LaMgAl}_x\text{O}_y\text{:Tb,Mn}$ (where x is from 1 to 14 and y is from 8 to 47), and mixtures thereof; and from 20 to 70% by weight of a third green phosphor selected from the group consisting of $\text{ReBO}_3\text{:Tb}$ (where Re is at least one rare earth element selected from the group consisting of Sc, Y, La, Ce, and Gd), and wherein the discharge gas comprises at least 6% by weight of Xe based on the total weight of the discharge gas.

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